ABSTRACT OF THE DISCLOSURE

The present invention relates to a fluorescent glass capable of being doped with a high concentration of rare earth ions and suitable for optical communication application, and an optical component incorporating it. The fluorescent glass comprises Al_2O_3 of 15 to 50 mol%; SiO_2 of 0 to 80 mol%; an oxide of 5 to 85 mol% in total comprising at least one of B_2O_3, Ga_2O_3, Y_2O_3, Ta_2O_5, Sb_2O_3, Nd_2O_5, La_2O_3, and Yb_2O_3; and a rare earth ion. Concentration quenching is more suppressed in this fluorescent glass than in conventional fluorescent glasses, and it is thus feasible for the fluorescent glass to be doped with a high concentration of rare earth ions and to highly efficiently generate fluorescence of wavelengths in the signal wavelength bands generally used in optical communication.